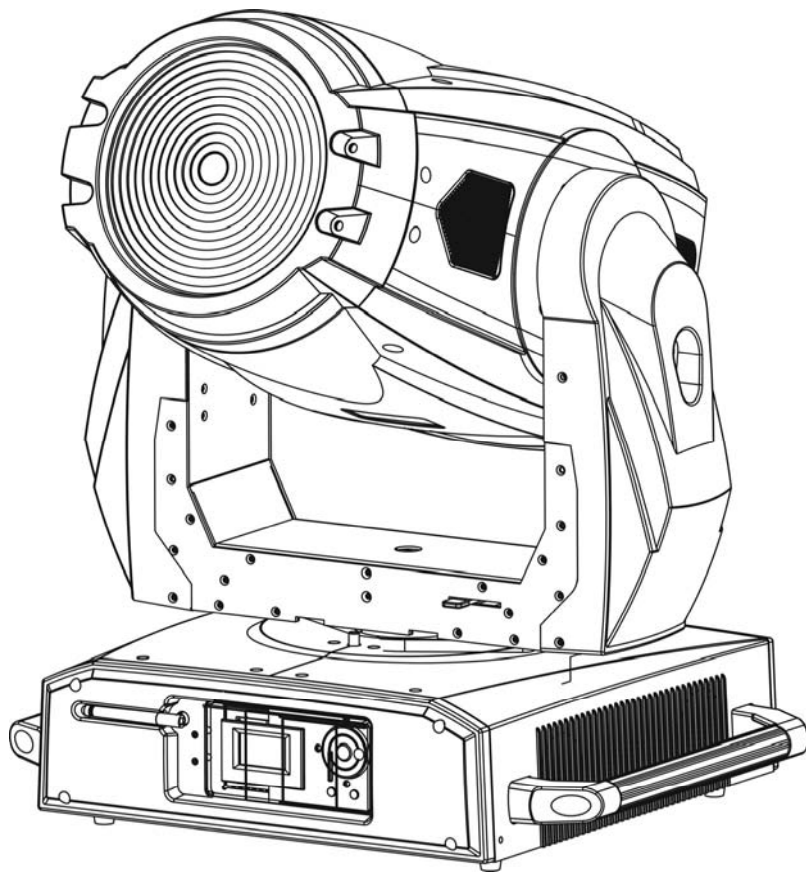




## XPerior™ 700WZA Wash



## User Guide

Please read these instructions carefully before use



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## 1. Safety Instruction



### WARNING

Please read carefully the instruction manual, which includes important information about the installation, usage and maintenance.

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

#### ***Important:***

***Damages caused by the disregard of this user manual are not subject to warranty.***

***The dealer will not accept liability for any resulting defects or problems.***

- Unpack and check carefully that there is no transportation damage before using the unit.
- The unit is for indoor use only. Use only in a dry location.
- Do install and operate by qualified operator.
- Do not allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply matches the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Maximum ambient temperature TA: 40°C. Don't operate it when the temperature is higher.
- Don't connect the device to any dimmer pack.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Unit's surface temperature may reach up to 85°C. Don't touch the housing bare-handed

during its operation, and allow about 15 minutes for cooling the unit down before replacing bulb or maintenance as it could be very hot.

- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut off the mains power immediately.
- Do not operate in dirty or dusty environment; do clean the fixture regularly.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires twist other cables.
- The minimum distance between light output and the illuminated surface must be more than 2.5 meters.
- Disconnect mains power before fuse/lamp replacement or servicing.
- Replace fuse/lamp only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- Do not open the unit as there are no user serviceable parts inside.
- Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect the mains power if the fixture is has not been used for a long time.
- Do use the original packing materials before transporting it once again.

### **Caution**

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Hot lamp explosion hazard. Do not open the unit within 15 minutes after switching off.
- Do replace the bulb once it is damaged, deformed or life-expired.
- Do not look directly at the light while the bulb is on.
- Never touch bulb with bare fingers, as it is very hot after using.
- Do not start on the unit without bulb enclosure or when housing is damaged.

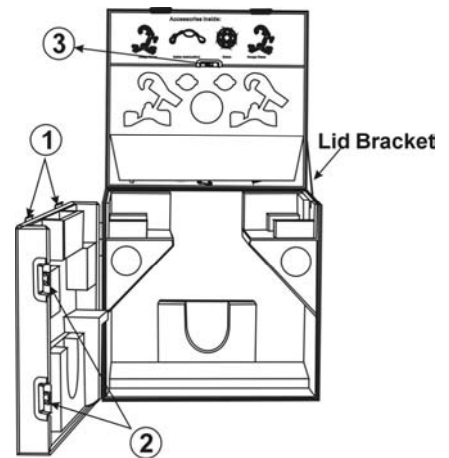
### **Product Items**

- User manual
- 2 x Omega clamps

## 2. Installation

### Unpacking the fixture (for flight case pack only)

1. Stop the flight case via the brake sheet above the wheels.
2. Unlock the lock modules (1) and (2), open the cover board.
3. Prop the cover board with lid bracket and open the side board.
4. Take out the fixture.
5. Unlock the lock module (3) take out omega clamps, safety cable and gobo.



### Installation:

1. Bolt each clamp (1) to the Omega holder with screw and lock nut through the hole in the holder.
2. Fasten the omega holders (2) on the bottom of the base by inserting quick-lock fasteners (3) into the holes of the base and tighten fully clockwise.
3. Hang the fixture to the support (4) through clamp and fasten the screws (5). Fasten the safety cable (6) through the bottom of the base and over the support.

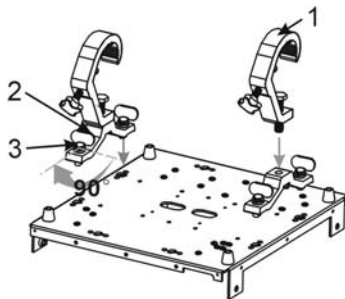


Fig.1

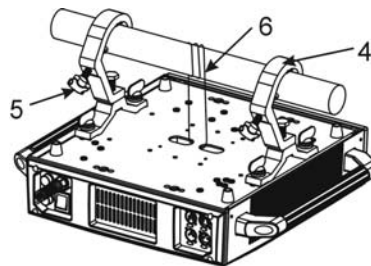


Fig.2

### Attention:

- Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight without any harming deformation.
- Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.
- Make absolute sure that the unit is firmly fixed in way that no vibrating or slipping would

occur during operation.

- The equipment must be installed beyond the areas where persons may walk by or be seated.
- The rigging has to be operated by or under the guide of a skilled person.

### 3. Technical Specification

#### **Power supply**

- AC 100V~240V 50/60Hz

#### **Power Consumption**

- 845W (230V)
- 877W (120V)

#### **Fuse**

- T 6.3A (for transformer)
- T 15A (for lamp)

#### **Lamp**

- Philips MSR Gold 700/2 FastFit

#### **Battery backup display**

- Setting DMX address or other functions without connecting to mains power.
- Battery for LCD display charges automatically when the fixtures connects to the mains power.
- No need to change battery.

#### **Wireless control** (for the unit with wireless receiver built-in only)

- Wirelessly controlled by W-DMX (option).
- Each W-DMX is sending out 512 channels of DMX.
- License free band of 2.45 GHz

#### **Optical system**

- High efficiency optical system, delivering extremely powerful output
- High quality dichroic lenses
- Beam angle: 12° ~45°

#### **Movement**

- Pan: 540°
- Tilt: 270°

- Pan/Tilt moving speed adjustable.
- Automatic Pan/Tilt correction.
- Easy calibration and maintenance by magnetic home positioning.
- Pan/Tilt position lock for transporting protection.

#### **Dimmer/Shutter**

- Blackout, 0~100% smooth dimming, independent shutter and various strobe effect.

#### **Color wheel**

- Color wheel1: 7 dichroic colors + open.
- Color wheel2: 7 dichroic colors + open.
- Rainbow effect in both directions.
- Easy calibration and maintenance by magnetic home positioning.

#### **CMY**

- CMY speed adjustable.
- Optional multiple preset colors and macros available.

#### **Zoom**

- Motorized linear zoom for smooth adjustment of beam size and beam sharpness.

#### **Cool**

- Fan cooled

#### **Protocols**

- DMX 512
- Data input/output: 3/5 Pin XLR socket

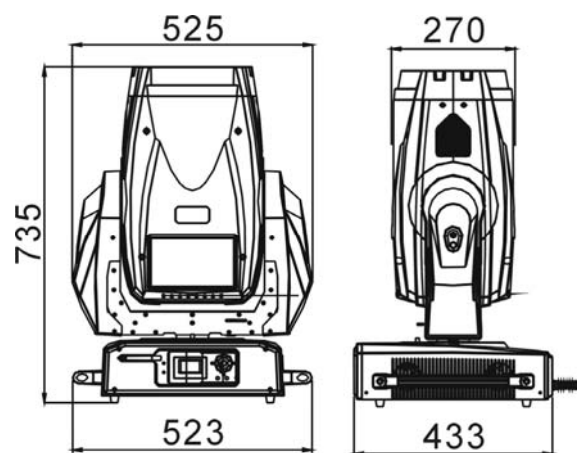
#### **Weight**

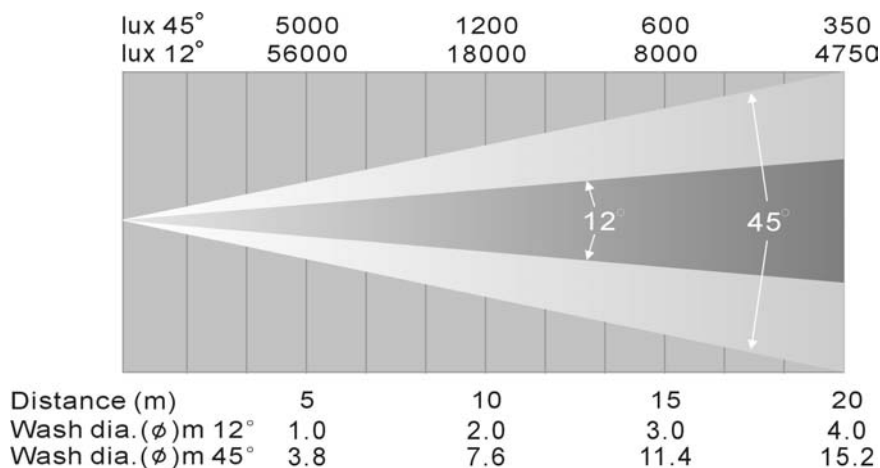
- 35.5kgs

#### **Dimension**

- 525× 433× 735 mm

#### **Photometric diagram**



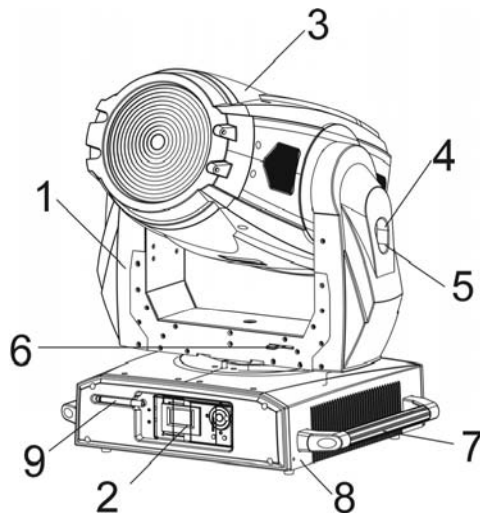


### DMX Channels

| Mode<br>Channel | Mode 1<br>16-CH | Mode 2<br>21-CH      | Mode 3<br>21-CH      |
|-----------------|-----------------|----------------------|----------------------|
| 1               | Pan             | Shutter              | Pan                  |
| 2               | Pan Fine        | Dimmer               | Pan Fine             |
| 3               | Tilt            | Cyan                 | Tilt                 |
| 4               | Tilt Fine       | Magenta              | Tilt Fine            |
| 5               | Pan/Tilt Speed  | Yellow               | Pan/Tilt Speed       |
| 6               | Shutter         | 3200K(CTO)           | Function             |
| 7               | Dimmer          | Color 1              | Pan/Tilt Macro       |
| 8               | Color 1         | Color 2              | Pan/Tilt Macro Speed |
| 9               | Color 2         | Zoom                 | Color 1              |
| 10              | Cyan            | Preset Color         | Color 2              |
| 11              | Magenta         | Color Macro 1        | Cyan                 |
| 12              | Yellow          | Color Macro 2        | Magenta              |
| 13              | 3200K (CTO)     | CMY/CTO Speed        | Yellow               |
| 14              | Preset Color    | Pan/Tilt Macro       | 3200K(CTO)           |
| 15              | Zoom            | Pan/Tilt Macro Speed | Preset Color         |
| 16              | Function        | Pan                  | CMY/CTO Speed        |
| 17              |                 | Pan Fine             | Color Macro          |
| 18              |                 | Tilt                 | Zoom                 |
| 19              |                 | Tilt Fine            | Shutter              |
| 20              |                 | Pan/Tilt Speed       | Dimmer               |
| 21              |                 | Function             | Dimmer Fine          |

## 4. Description

### 4.1 Description of the fixture



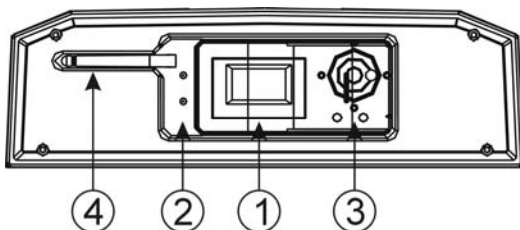
- 1. Arm
- 2. Front panel
- 3. head
- 4. Tilt lock button (Black)
- 5. Tilt unlock button (Gray)
- 6. Pan lock
- 7. Handle
- 8. Base
- 9. Antenna (for XP-700WZA WT only)

The head can be locked for transportation protection-the tilt lock button (4) is pressed and the pan lock/unlock lever (6) is in lock position. To unlock the head, press the tilt unlock button (5) and move the pan lock/unlock lever (6) to unlock position.

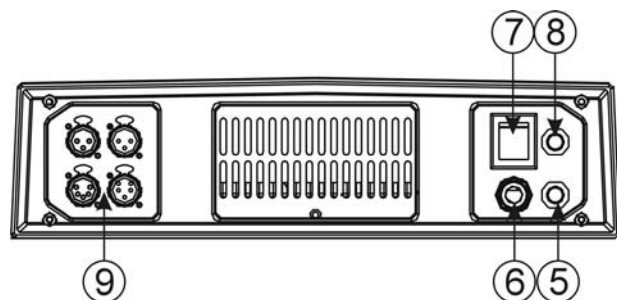
**Caution: The head and arm must be unlocked before operation!**

### 4.2 Control Panel

Front View



Rear View



① **Monitor (Batter Back-up display):**

② **LED**

|       |    |                   |
|-------|----|-------------------|
| POWER | On | Power on          |
| DMX   | On | DMX input present |

**③ Button**

|           |                                                |
|-----------|------------------------------------------------|
| MENU      | To enter into, move backward or leave the menu |
| ENTER     | To perform the desired functions               |
| Jog Wheel | To go to move up/down in the menu              |

**④ Antenna** (for XP-700WZA WT only)

Receive wireless signal from a wide range.

**⑤ Transformer Fuse (T 6.3 A):**

Protect the transformer from damage of over current.

**⑥ Power Cable:**

To connect to the mains AC

**⑦ Power Switch:**

Turns On/Off the power

**⑧ Lamp Fuse (T 15 A):**

Protect lamp from damage of over current.

**⑨ DMX input/output:**

For DMX 512 operation, use 3/5-pin XLR plug cable to link the units together

**5. Lamp****MSR/ MSD Gold 700/2 FastFit**

- Because of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the eyes and skin. The high luminance of the arc can cause severe damage to the retina if you take a close look at the lamp.
- To protect the lamp, always turn off the lamp first (via control panel or DMX controller) and let the unit run at least five minutes to cool down before switching off the mains supply. Never handle the lamp or luminaire when it is hot.
- Do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.
- The lamp generates UV radiation. Never operate the lamp without appropriate

shielding.

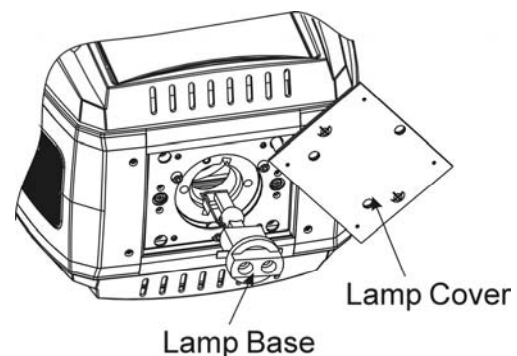
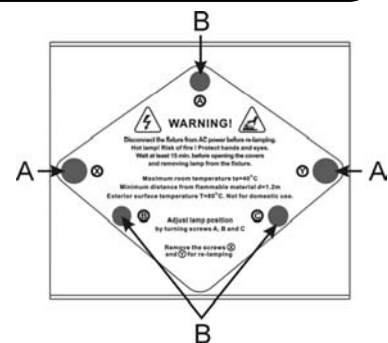
- When lighting up, the lamp operates at high pressure and there is a slight risk of arc tube rupture. The risk increases with age, temperature and improper handling of the lamp. Do not use the lamp longer than its lifespan.
- Make sure the lamp is located in the center of the reflector for the best projection.

## Change Lamp



In case of replacement of the lamp or maintenance, do not open the fixture within 15 minutes until the unit cools down after switching off.

1. Turn off the power.
2. Unscrew the two screws (A), open the lamp cover, turn it to the position as the sketch shown below.
3. Hold the base of the lamp, anticlockwise turn until it is parallel to the groove.
4. Inset a new lamp follow the groove, turn it clockwise to fix the lamp.
5. Tighten the screws (A) to fix the lamp cover.
6. Turn the screws (B) to adjust the lamp position be sure it is located in the center of the reflector for the best projection.



## 6. How To Set The Unit

### 6.1 Power On Display

Every time you turn on the unit, it will run built-in program to reset all motors to their home position, the display will show as fig.4, you may hear some noises for about 20 seconds. It will show warning sign if it goes wrong during resetting and you can press the MENU button to view the error information. After that the unit will be ready to receive DMX signal and the display will show as fig.5.



Fig.4



Fig.5

Explanation of fig.5:

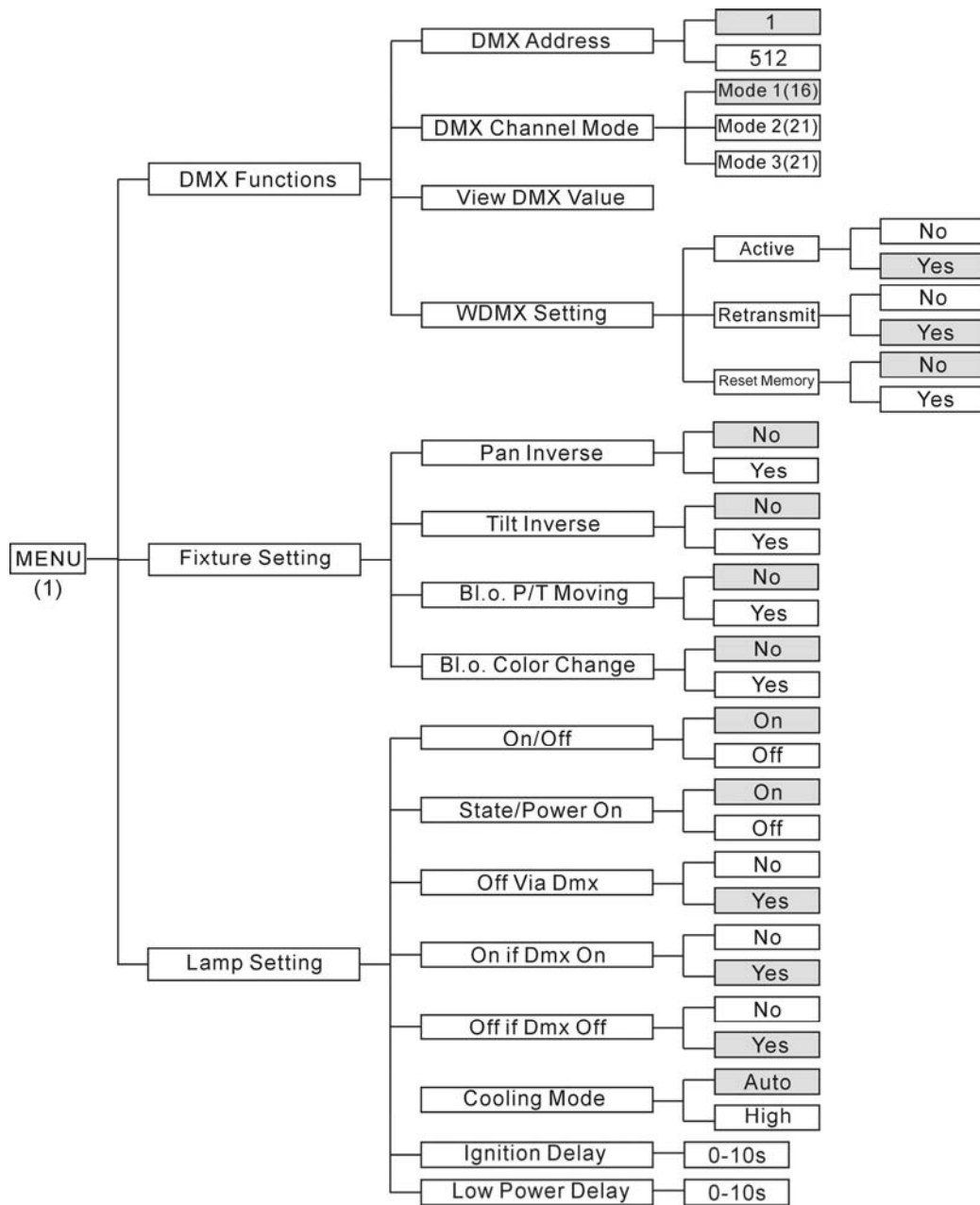
|                                                                                   |                                                   |
|-----------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Base 40° C</b>                                                                 | Present temperature of base CPU is 40° C          |
| <b>001</b>                                                                        | Present start address                             |
| <b>Md.1 16Ch</b>                                                                  | Present channel mode is mode 1 (16 channels mode) |
| <b>Lamp 30° C</b>                                                                 | Present temperature of lamp is 30° C              |
|  | Warning signal blinking direct resetting error    |

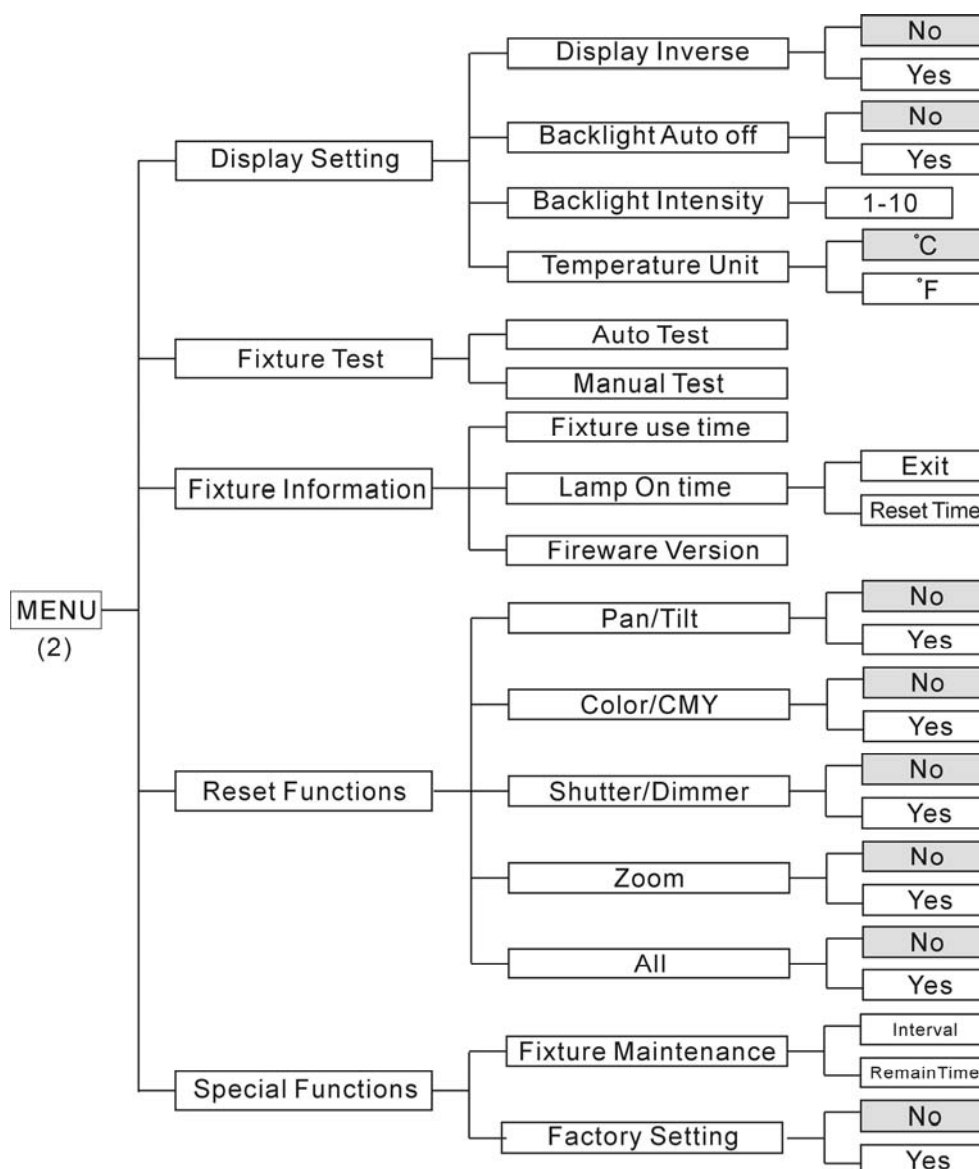
## 6.2 Main Function

Turn on the unit, press **MENU** button into menu mode, press **UP** and **DOWN** button until the required function is shown on the monitor. Select the function by **ENTER** button. Use **UP** and **DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press **MENU** button or let the unit idle one minute to exit menu mode.

In the event of disconnecting with mains power, press **UP** button for one minute to enter into menu mode. Press **MENU** button or let the unit idle one minute to exit.

The main functions are shown below (the grayed boxes are preset settings:





## DMX Functions

Enter menu mode, select **DMX Functions**, press ENTER button to confirm, use jog wheel to select **DMX Address**, **DMX Channel Mode**, **View DMX Value** or **WDMX Setting**

### DMX Address —DMX512 address setting

Select **DMX Address**, press ENTER button to confirm, the present address will blink on the display, use jog wheel to adjust the address from **0** to **512**, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

### DMX Channel Mode —channel mode

Select **DMX Channel Mode**, press ENTER button to confirm, present channel mode will blink on the display, use jog wheel to select **Mode1 (16 channels mode)** or **Mode 2 (21 channels mode)** or **Mode 3 (21 channels mode)**, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

#### **View DMX Value**

Select **View DMX Value**, press ENTER button to confirm. Channel function and its value will show on the display, use jog wheel to view other DMX value. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

#### **WDMX Setting**—wireless control setting

##### **(For the unit with wireless receiver built-in only)**

Select **WDMX Setting**, press ENTER button to confirm. Use jog wheel to select **Active**, **Retransmit** or **Reset Memory**, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

#### **Active**

Select **Active**, press ENTER button to confirm, use Jog wheel to select **Yes** (wireless control available) or **No** (wireless control unavailable), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

*(Set wireless control to be available, the power indicate LED will strobe)*

#### **Retransmit**

Select **Retransmit**, press ENTER button to confirm, use Jog wheel to select **Yes** or **No**, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

#### **Reset Memory**

Select **Reset Memory**, press ENTER button to confirm, use Jog wheel to select **Yes** (refuse wireless signal) or **No**, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

### **Fixture Setting**

Enter menu mode, select **Fixture Setting**, press ENTER button to confirm, use jog wheel to select **Pan Inverse**, **Tilt Inverse**, **BL.O. P/T Moving**, or **BL.O. Color Change**.

**Pan Inverse**

Select **Pan Inverse**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **No** (normal) or **Yes** (pan inverse), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Tilt Inverse**

Select **Tilt Inverse**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **No** (normal) or **Yes** (tilt inverse), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**BL.O. P/T Moving** —Blackout while pan/tilt moving

Select **BL.O. P/T Moving**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **No** (normal while pan/tilt moving) or **Yes** (blackout while pan/tilt moving), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**BL.O. Color Change** —Blackout while change color

Select **BL.O. Color Change**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **No** (normal while changing color) or **Yes** (blackout while changing color), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Lamp Setting**

**Attention: The lamp will not be on unit detected temperature is lower than 45 ° C.**

Enter menu mode, select **Fixture Setting**, press ENTER button to confirm, use jog wheel to select **On/Off, State/Power on, Off Via Dmx, On if Dmx on, Off if Dmx off, Cooling Mode, Ignition Delay** or **Low Power Delay..**

**On/Off** —Turn on/off the lamp

Select **On/Off**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **On** (lamp on) or **Off** (lamp off), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**State/Power On** —Lamp state while power on

Select **State/Power On**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **On** (Lamp on while power on) or **Off** (Lamp off while power on), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Off Via Dmx** —Turn off the unit via Dmx controller

Select **Off Via Dmx**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **Yes** (turn off the unit via Dmx controller available) or **No** (turn off the unit via Dmx controller impracticable), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

*(When you operate the unit via DMX controller, set the value of channel “special function” to “lamp off”, waiting for 5 seconds, then the lamp will be off if you choose “yes” mode).*

**On If DMX On** — Lamp turns on when DMX signal is detected

Select **On If Dmx On**, press ENTER button to confirm, present mode will blink on the display, use UP and DOWN button to select **Yes** (Lamp turns on when DMX signal is detected) or **No** (keep the present state), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode *(If the lamp is off via DMX signal, you can reconnect the DMX controller to make the lamp on).*

**Off If DMX Off** — Lamp turns off when DMX signal is cut off

Select **Off If Dmx Off**, press ENTER button to confirm, present mode will blink on the display, use UP and DOWN button to select **Yes** (Lamp turns off when DMX signal is cut off), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Cooling Mode** — Lamp turns off when DMX signal is cut off

Select **Cooling Mode**, press ENTER button to confirm, present mode will blink on the display, use UP and DOWN button to select **Auto** (fans speed adjust automatically) or **High** (fans run in high speed), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Ignition Delay** —Delay time between power on and lamp on

Select **Ignition Delay**, press ENTER button to confirm, present mode will blink on the

display, use jog wheel to adjust the delay time from 0S to 255S, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Low Power Delay** —*Delay time between reduce lamp power and shutter off the unit*

Select **Low Power Delay**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to adjust the delay time from 0S to 255S, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

*(If you set the low power delay time to 3S, the lamp will run in half power 3 seconds after the unit shutters off)*

## **Display Setting**

Enter menu mode, select **Display Setting**, press ENTER button to confirm, use jog wheel to select **Display Inverse**, **Backlight Auto Off**, **Backlight Intensity** or **Temperature unit**.

**Display Inverse**

Select **Display Inverse**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **No** (normal display) or **Yes** (inverse display), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Backlight Auto Off**

Select **Backlight Auto Off**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to select **No** (display always on) or **Yes** (display goes off one minute after exiting menu mode), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Backlight Intensity**

Select **Backlight Intensity**, press ENTER button to confirm, present mode will blink on the display, use jog wheel to adjust backlight intensity from **1** (dark) to **10** (bright), press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

**Temperature Unit**

Select **Temperature Unit**, press ENTER button to confirm, present mode will blink on

the display, use jog wheel to select °C or °F, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

## Fixture Test

Enter menu mode, select **Fixture Test**, press ENTER button to confirm, use jog wheel to select **Auto Test** or **Manual Test**

### Auto Test

Select **Auto Test**, press ENTER button to confirm, the unit will run built-in programs to automatically test pan, tilt, color, CMY, gobo, gobo rotation, shutter, dimmer, prism, prism rotation, frost, zoom, and lamp on/off. Press MENU button back to the last menu or exit menu mode after auto test.

### Manual Test

Select **Manual Test**, press ENTER button to confirm, the present channel will show on the display, use jog wheel to select channel, press ENTER button to confirm, then use jog wheel to adjust the value, press ENTER button to store, the fixture will run as the channel value indicates. Press MENU button back to the last menu or exit menu mode let the unit idle one minute.

*(All channels value will become 0 after exiting Manual Test menu)*

## Fixture Information

Enter menu mode, select **Fixture Information**, press ENTER button to confirm, use jog wheel to select **Fixture Use Time**, **Lamp On Time** or **Firmware Version**.

### Fixture Use Time

Select **Fixture Use Time**, press ENTER button to confirm, fixture use time will show on the display, press MENU button to exit.

### Lamp On Time

Select **Lamp On Time**, press ENTER button to confirm, lamp on time will show on the display, press ENTER button to confirm, use jog wheel to select **Exit** or **Reset Time**, press ENTER button to confirm. Press MENU button back to the last menu or exit menu mode let the unit idle one minute.

### Firmware Version

Select **Firmware Version**, press ENTER button to confirm, firmware version will show

on the display, press MENU button back to exit.

## Reset Functions

Enter menu mode, select **Reset Functions**, press ENTER button to confirm, use jog wheel to select **Pan&Tilt**, **Color/CMY**, **Shutter**, **Zoom** or **All**.

### **Pan/Tilt** —Reset Pan/Tilt

Select **Pan/Tilt**, press ENTER button to confirm, use jog wheel to select **Yes** (the unit will run built-in program to reset pan and tilt to their home positions) or **No**, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

### **Color/CMY** —Reset Color/CMY

Select **Color/CMY**, press ENTER button to confirm, use jog wheel to select **Yes** (the unit will run built-in program to reset color wheel and CMY to their home positions) or **No**, press ENTER button to store. Press MENU button to exit.

### **Shutter** —Reset Shutter

Select **Shutter**, press ENTER button to confirm, use jog wheel to select **Yes** (the unit will run built-in program to reset shutter to its home positions) or **No**, press ENTER button to store. Press MENU button to exit.

### **Zoom** —Reset Zoom

Select **Zoom**, press ENTER button to confirm, use jog wheel to select **Yes** (the unit will run built-in program to reset zoom to home positions) or **No**, press ENTER button to store. Press MENU button to exit.

### **All** —Reset All

Select **All**, press ENTER button to confirm, use jog wheel to select **Yes** (the unit will run built-in program to reset all motors to their home positions) or **No**, press ENTER button to store. Press MENU button to exit.

## Special Functions

Enter menu mode, select **Special Functions**, press ENTER button to confirm, use jog wheel to select **Fixture Maintenance** or **Factory Setting**.

### **Fixture Maintenance**

Select **Fixture Maintenance**, press ENTER button to confirm, use jog wheel to select **Interval** or **Remain Time**.

### Interval

Select **Interval**, press ENTER button to confirm, the interval time will show on the display. Press MENU button to exit.

### Remain Time

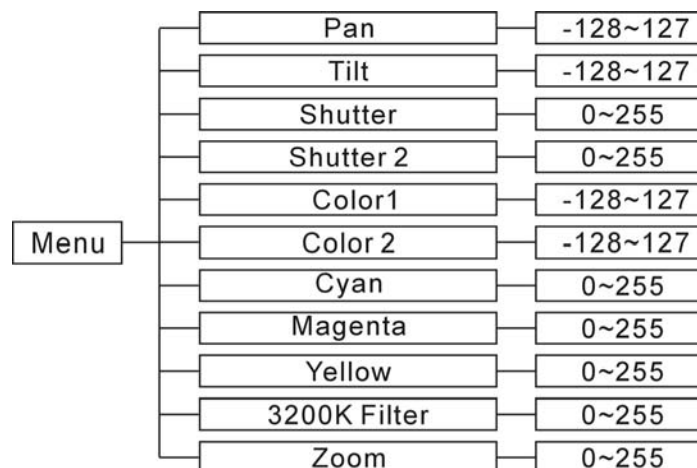
Select **Remain Time**, press ENTER button to confirm, the remaining time will show on the display, press ENTER button to confirm, use jog wheel to select **Exit** or **Resettime**, press MENU button to exit.

### Factory Setting

Select **Factory Setting**, press ENTER button to confirm, the fixture will reset to factory settings and exit menu mode.

## 6.3. Home Position Adjustment

Press **MENU** button into menu mode, then press ENTER button for about 3 seconds into offset mode to adjust the home position. Select the function by **ENTER** button. Use jog wheel to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press MENU button to exit.



**Pan**—pan home position adjust

Enter offset mode, Select **Pan**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from -128 to 127, press ENTER button to store. Press MENU button to exit.

**Tilt**—Tilt home position adjust

Enter offset mode, Select **Tilt**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from -128 to 127, press ENTER button to store. Press MENU button to exit.

**Shutter/Shutter 2**—Shutter home position adjust

Enter offset mode, Select **Shutter/Shutter 2**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from 0 to 255, press ENTER button to store. Press MENU button to exit.

**Color 1/Color 2**—Color home position adjust

Enter offset mode, Select **Color 1/Color 2**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from -128 to 127, press ENTER button to store. Press MENU button to exit.

**Cyan**—Cyan home position adjust

Enter offset mode, Select **Cyan**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from 0 to 255, press ENTER button to store. Press MENU button to exit.

**Magenta**—Magenta home position adjust

Enter offset mode, Select **Magenta**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from 0 to 255, press ENTER button to store. Press MENU button to exit.

**Yellow**—Yellow home position adjust

Enter offset mode, Select **Yellow**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from 0 to 255, press ENTER button to store. Press MENU button to exit.

**3200K Filter**—Yellow home position adjust

Enter offset mode, Select **3200K Filter**, press ENTER button to confirm, the present position will blink on the display, use jog wheel to offset the value from 0 to 255, press ENTER button to store. Press MENU button to exit.

**Zoom**—Zoom home position adjust

Enter offset mode, Select **Zoom**, press ENTER button to confirm, the present position will

blink on the display, use jog wheel to offset the value from 0 to 255, press ENTER button to store. Press MENU button to exit.

#### **6.4. Error Information**

##### **Lamp Startup Fail**

It appears when there is no lamp or some wires are damaged.

##### **Temperature Sense Error**

It appears when temperature check board is damaged.

##### **Lamp Too Hot Power Off**

It appears when temperature is detected higher than 110°C. Check if the unit is properly ventilated, or fans or temperature check board may be damaged.

##### **Lamp Too Hot Low Power**

It appears when temperature is detected higher than 105°C. the unit will run on a low power level.

##### **Maintenance Fixture**

It appears when the maintenance remaining time becomes 0S, please enter menu mode and reset the time.

##### **Lamp On Over 700 Hour**

It appears when the lamp has been on over 700 hours, please turn off the lamp.

##### **Memory Initial Fail**

It appears when the memory IC is damaged.

##### **CPU-B Error, CPU-C Error, CPU-D Error**

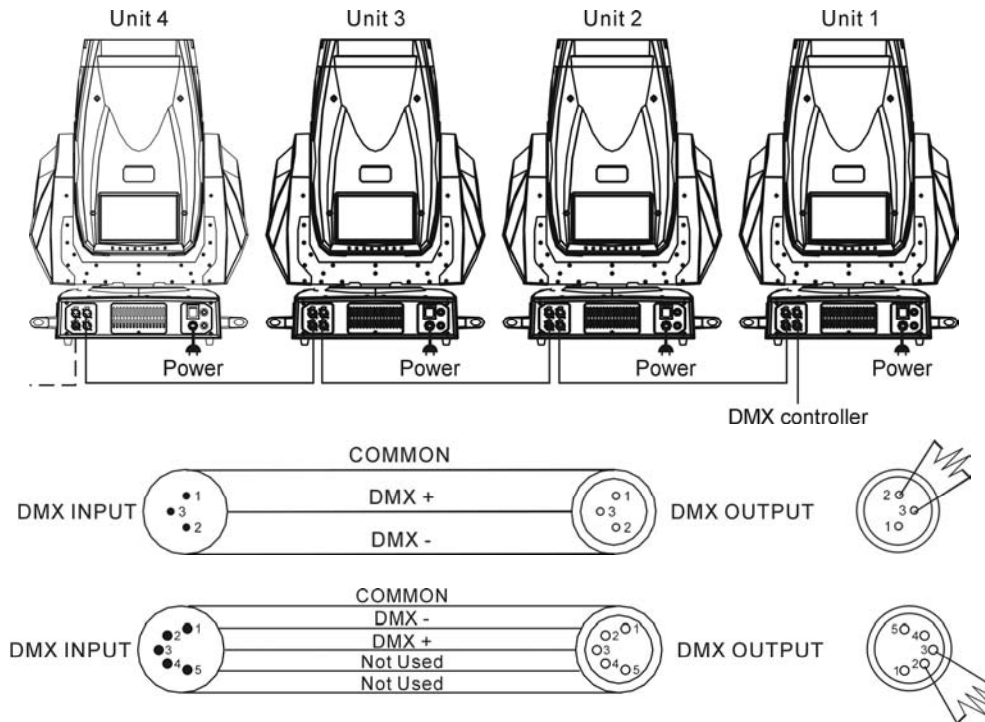
They appear when board P.C or some wires are damaged.

##### **Pan Reset Error, Pan Encode Error, Tilt Reset Error, Tilt Encode Error, Shutter Reset Fail, Color Reset Fail, Cyan Reset Fail, Magenta Reset Fail, Yellow Reset Fail, 3200K Filter Reset Fail and Effect Reset Fail**

They may appear when turning on or resetting the unit, for some parts such as board P.C are damaged. Please contact the qualified maintenance.

## 7. Control By Universal DMX Controller

### 7.1 Connection



#### ATTENTION

Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal (Resistance 120 ohm 1/4W between pin2 (DMX-) and pin3 (DMX+) of the last fixture).

1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. The end of the DMX 512 system should be terminated to reduce signal errors.

6. 3 pin XLR connectors are more popular than 5 pins XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

## 7.2 Channel Mode Setting

Enter menu mode, select **DMX Functions**, press ENTER button to confirm, use jog wheel to select **DMX Channel Mode**, press ENTER button to confirm, present channel mode will blink on the display, use jog wheel to select **Mode1 (16 channels mode )** or **Mode 2 (21 channels mode)** or **Mode 3 (21 channels mode)**, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

## 7.3 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press MENU button to enter menu mode, select **DMX Functions**, press ENTER button to confirm, use jog wheel to select **DMX Address**, press ENTER button to confirm, the present address will blink on the display, use jog wheel to adjust the address from 0 to 512, press ENTER button to store. Press MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

| Channel mode | Unit 1<br>Address | Unit 2<br>Address | Unit 3<br>Address | Unit 4<br>Address |
|--------------|-------------------|-------------------|-------------------|-------------------|
| 16 channels  | 1                 | 17                | 33                | 49                |
| 21 channels  | 1                 | 22                | 43                | 64                |

## 7.4 DMX 512 Configuration

Please refer to below configurations to control the fixtures

### Attention:

1. The unit will maintain the last condition until reset if you cut-off the DMX signal.
2. For the channel Function, keep the value for about 5 seconds, then the corresponding function will take into effect.

## 16 Channels (Mode 1):

| 16-CH DMX512 Configurations(mode 1)                                                                                                                                                                                                                      |                      |                      |                      |                        |                                                                                                                                                                                                                       |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ch1                                                                                                                                                                                                                                                      | Ch2                  | Ch3                  | Ch4                  | Ch5                    | Ch6                                                                                                                                                                                                                   | Ch7                           | Ch8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pan                                                                                                                                                                                                                                                      | Pan Fine             | Tilt                 | Tilt Fine            | Pan/Tilt Speed         | Shutter                                                                                                                                                                                                               | Dimmer                        | Color1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 255 540°<br><br>0 0°                                                                                                                                                                                                                                     | 255<br><br>0         | 255 270°<br><br>0 0° | 255<br><br>0         | 255 Slow<br><br>0 Fast | 248-255 Open<br>240-247 Random Strobe<br>204-239 Slow open slow close<br>168-203 Slow close fast open<br>132-167 Slow open fast close<br>⚡⚡⚡<br>16-131 ⚡⚡<br>⚡<br>8-15 Open<br>0-7 Off                                | 255 100%<br><br>0 0%          | 255 Rotation Fast<br><br>192 Rotation Slow<br>191 Rotation Slow<br><br>128 Rotation Fast<br>064-127 Color Preset<br>056-063 5600K<br>048-055 UV Purple<br>040-047 Light Blue<br>032-039 Light Green<br>024-031 Light Yellow<br>016-023 Pink<br>008-015 Deep Blue<br>001-007 White                                                                                                                                                                                                                  |
| Ch9                                                                                                                                                                                                                                                      | Ch10                 | Ch11                 | Ch12                 | Ch13                   | Ch14                                                                                                                                                                                                                  | Ch15                          | Ch16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Color2                                                                                                                                                                                                                                                   | Cyan                 | Magenta              | Yellow               | 3200K                  | Preset Color                                                                                                                                                                                                          | Zoom                          | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 255 Rotation Fast<br><br>192 Rotation Slow<br>191 Rotation Slow<br><br>128 Rotation Fast<br>064-127 Color Preset<br>056-063 Blue<br>048-055 Orange<br>040-047 Magenta<br>032-039 Green<br>024-031 Pink<br>016-023 Yellow<br>008-015 Red<br>001-007 White | 255 100%<br><br>0 0% | 255 100%<br><br>0 0% | 255 100%<br><br>0 0% | 255 100%<br><br>0 0%   | 234-255 Color11<br>213-233 Color10<br>192-212 Color9<br>171-191 Color8<br>149-170 Color7<br>128-148 Color6<br>107-127 Color5<br>086-106 Color4<br>064-085 Color3<br>043-063 Color2<br>022-042 Color1<br>000-021 White | 8-255<br><br>0 0%<br>0-7 Open | 240-255 No Function<br>230-239 Lamp Off<br>210-229 No Function<br>200-209 Reset All<br>190-199 No Function<br>180-189 Zoom Reset<br>170-179 Shutter Reset<br>160-169 No Function<br>150-159 Color/CMY Reset<br>140-149 Pan/Tilt Reset<br>130-139 Lamp On<br>110-129 No Function<br>100-109 Disable Blackout while color change<br>090-099 Enable Blackout while color change<br>080-089 Disable Blackout while Pan/Tilt Move<br>070-079 Enable Blackout while Pan/Tilt Move<br>000-069 No Function |

## 21 Channels (Mode 2):

| 21-CH DMX512 Configurations(mode 2)                                                                                                                                                                                                                      |                                     |                                                                                                                                                                                                                       |                                                                                                                                                          |                                                                                                                                                          |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ch1                                                                                                                                                                                                                                                      | Ch2                                 | Ch3                                                                                                                                                                                                                   | Ch4                                                                                                                                                      | Ch5                                                                                                                                                      | Ch6                    | Ch7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Shutter                                                                                                                                                                                                                                                  | Dimmer                              | Cyan                                                                                                                                                                                                                  | Magenta                                                                                                                                                  | Yellow                                                                                                                                                   | 3200K                  | Color1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 248-255 Open<br>240-247 Random Strobe<br>204-239 Slow open slow close<br>168-203 Slow close fast open<br>132-167 Slow open fast close<br>⚡⚡⚡<br>16-131 ⚡⚡<br>⚡<br>8-15 Open<br>0-7 Off                                                                   | 255 100%<br><br>0 0%                | 255 100%<br><br>0 0%                                                                                                                                                                                                  | 255 100%<br><br>0 0%                                                                                                                                     | 255 100%<br><br>0 0%                                                                                                                                     | 255 100%<br><br>0 0%   | 255 Rotation Fast<br><br>192 Rotation Slow<br>191 Rotation Slow<br><br>128 Rotation Fast<br>064-127 Color Preset<br>056-063 5600K<br>048-055 UV Purple<br>040-047 Light Blue<br>032-039 Light Green<br>024-031 Light Yellow<br>016-023 Pink<br>008-015 Deep Blue<br>001-007 White                                                                                                                                                                                                                                                                                                                                |
| Ch8                                                                                                                                                                                                                                                      | Ch9                                 | Ch10                                                                                                                                                                                                                  | Ch11                                                                                                                                                     | Ch12                                                                                                                                                     | Ch13                   | Ch14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Color2                                                                                                                                                                                                                                                   | Zoom                                | Preset Color                                                                                                                                                                                                          | Color Macro 1                                                                                                                                            | Color Macro 2                                                                                                                                            | CMY/F Speed            | Pan/Tilt Macro 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 255 Rotation Fast<br><br>192 Rotation Slow<br>191 Rotation Slow<br><br>128 Rotation Fast<br>064-127 Color Preset<br>056-063 Blue<br>048-055 Orange<br>040-047 Magenta<br>032-039 Green<br>024-031 Pink<br>016-023 Yellow<br>008-015 Red<br>001-007 White | 100%<br><br>8-255<br>0%<br>0-7 Open | 234-255 Color11<br>213-233 Color10<br>192-212 Color9<br>171-191 Color8<br>149-170 Color7<br>128-148 Color6<br>107-127 Color5<br>086-106 Color4<br>064-085 Color3<br>043-063 Color2<br>022-042 Color1<br>000-021 White | 214-255 Color Macro 6<br>174-213 Color Macro 5<br>132-173 Color Macro 4<br>92-131 Color Macro 3<br>50-91 Color Macro 2<br>8-49 Color Macro 1<br>0-7 Null | 214-255 Color Macro 6<br>174-213 Color Macro 5<br>132-173 Color Macro 4<br>92-131 Color Macro 3<br>50-91 Color Macro 2<br>8-49 Color Macro 1<br>0-7 Null | 255 Slow<br><br>0 Fast | 248-255 Macro31<br>240-247 Macro30<br>232-239 Macro29<br>224-231 Macro28<br>216-223 Macro27<br>208-215 Macro26<br>200-207 Macro25<br>192-199 Macro24<br>184-191 Macro23<br>176-183 Macro22<br>168-175 Macro21<br>160-167 Macro20<br>152-159 Macro19<br>144-151 Macro18<br>136-143 Macro17<br>128-135 Macro16<br>120-127 Macro15<br>112-119 Macro14<br>104-111 Macro13<br>096-103 Macro12<br>088-095 Macro11<br>080-087 Macro10<br>072-079 Macro9<br>064-071 Macro8<br>056-063 Macro7<br>048-055 Macro6<br>040-047 Macro5<br>032-039 Macro4<br>024-031 Macro3<br>016-023 Macro2<br>008-015 Macro1<br>000-007 Null |

## 21-CH DMX512 Configurations(mode 2)

| Ch15                        | Ch16                      | Ch17              | Ch18                      | Ch19              | Ch20                        | Ch21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------|-------------------|---------------------------|-------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pan/Tilt<br>Macro Speed     | Pan                       | Pan Fine          | Tilt                      | Tilt Fine         | Pan/Tilt<br>Speed           | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 255 ┤ Slow<br>│<br>0 ┤ Fast | 255 ┤ 540°<br>│<br>0 ┤ 0° | 255 ┤<br>│<br>0 ┤ | 255 ┤ 270°<br>│<br>0 ┤ 0° | 255 ┤<br>│<br>0 ┤ | 255 ┤ Slow<br>│<br>0 ┤ Fast | 240-255 No Function<br>230-239 Lamp Off<br>210-229 No Function<br>200-209 Reset All<br>190-199 No Function<br>180-189 Zoom Reset<br>170-179 Shutter Reset<br>160-169 No Function<br>150-159 Color/CMY Reset<br>140-149 Pan/Tilt Reset<br>130-139 Lamp On<br>110-129 No Function<br>100-109 Disable Blackout<br>while color change<br>090-099 Enable Blackout<br>while color change<br>080-089 Disable Blackout<br>while Pan/Tilt Move<br>070-079 Enable Blackout<br>while Pan/Tilt Move<br>000-069 No Function |

## 21 Channels (Mode 3):

## 21-CH DMX512 Configurations(mode 3)

| Ch1                       | Ch2               | Ch3                       | Ch4               | Ch5                         | Ch6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ch7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|-------------------|---------------------------|-------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pan                       | Pan Fine          | Tilt                      | Tilt Fine         | Pan/Tilt<br>Speed           | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pan/Tilt<br>Macro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 255 ┤ 540°<br>│<br>0 ┤ 0° | 255 ┤<br>│<br>0 ┤ | 255 ┤ 270°<br>│<br>0 ┤ 0° | 255 ┤<br>│<br>0 ┤ | 255 ┤ Slow<br>│<br>0 ┤ Fast | 240-255 No Function<br>230-239 Lamp Off<br>210-229 No Function<br>200-209 Reset All<br>190-199 No Function<br>180-189 Zoom Reset<br>170-179 Shutter Reset<br>160-169 No Function<br>150-159 Color/CMY Reset<br>140-149 Pan/Tilt Reset<br>130-139 Lamp On<br>110-129 No Function<br>100-109 Disable Blackout<br>while color change<br>090-099 Enable Blackout<br>while color change<br>080-089 Disable Blackout<br>while Pan/Tilt Move<br>070-079 Enable Blackout<br>while Pan/Tilt Move<br>000-069 No Function | 248-255 Macro31<br>240-247 Macro30<br>232-239 Macro29<br>224-231 Macro28<br>216-223 Macro27<br>208-215 Macro26<br>200-207 Macro25<br>192-199 Macro24<br>184-191 Macro23<br>176-183 Macro22<br>168-175 Macro21<br>160-167 Macro20<br>152-159 Macro19<br>144-151 Macro18<br>136-143 Macro17<br>128-135 Macro16<br>120-127 Macro15<br>112-119 Macro14<br>104-111 Macro13<br>096-103 Macro12<br>088-095 Macro11<br>080-087 Macro10<br>072-079 Macro9<br>064-071 Macro8<br>056-063 Macro7<br>048-055 Macro6<br>040-047 Macro5<br>032-039 Macro4<br>024-031 Macro3<br>016-023 Macro2<br>008-015 Macro1<br>000-007 Null |

## 21-CH DMX512 Configurations(mode 3)

| Ch8                                                                                                                                                                                                                   | Ch9                                                                                                                                                                                                                                                                               | Ch10                                                                                                                                                                                                                                                                                                          | Ch11                  | Ch12                                                                                                                                                                    | Ch13                 | Ch14                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
| Pan/Tilt<br>Macro Speed                                                                                                                                                                                               | Color1                                                                                                                                                                                                                                                                            | Color2                                                                                                                                                                                                                                                                                                        | Cyan                  | Magenta                                                                                                                                                                 | Yellow               | 3200K                |
| 255 Slow<br><br>0 Fast                                                                                                                                                                                                | 255 Rotation Fast<br><br>192 Rotation Slow<br>191 Rotation Slow<br><br>128 Rotation Fast<br>064-127 Color Preset<br>056-063 5600K<br>048-055 UV Purple<br>040-047 Light Blue<br>032-039 Light Green<br>024-031 Light Yellow<br>016-023 Pink<br>008-015 Deep Blue<br>001-007 White | 255 Rotation Fast<br><br>192 Rotation Slow<br>191 Rotation Slow<br><br>128 Rotation Fast<br>064-127 Color Preset<br>056-063 Blue<br>048-055 Orange<br>040-047 Magenta<br>032-039 Green<br>024-031 Pink<br>016-023 Yellow<br>008-015 Red<br>001-007 White                                                      | 255 100%<br><br>0 0%  | 255 100%<br><br>0 0%                                                                                                                                                    | 255 100%<br><br>0 0% | 255 100%<br><br>0 0% |
| Ch15                                                                                                                                                                                                                  | Ch16                                                                                                                                                                                                                                                                              | Ch17                                                                                                                                                                                                                                                                                                          | Ch18                  | Ch19                                                                                                                                                                    | Ch20                 | Ch21                 |
| Preset Color                                                                                                                                                                                                          | CMY/F<br>Speed                                                                                                                                                                                                                                                                    | Color Macro                                                                                                                                                                                                                                                                                                   | Zoom                  | Shutter                                                                                                                                                                 | Dimmer               | Dimmer<br>Fine       |
| 234-255 Color11<br>213-233 Color10<br>192-212 Color9<br>171-191 Color8<br>149-170 Color7<br>128-148 Color6<br>107-127 Color5<br>086-106 Color4<br>064-085 Color3<br>043-063 Color2<br>022-042 Color1<br>000-021 White | 255 Slow<br><br>0 Fast                                                                                                                                                                                                                                                            | 235-255 Color Macro 12<br>214-234 Color Macro 11<br>194-213 Color Macro 10<br>174-193 Color Macro 9<br>153-173 Color Macro 8<br>132-152 Color Macro 7<br>111-131 Color Macro 6<br>91-110 Color Macro 5<br>70-90 Color Macro 4<br>50-69 Color Macro 3<br>29-49 Color Macro 2<br>8-28 Color Macro 1<br>0-7 Null | 8-255<br><br>0-7 Open | 248-255 Open<br>240-247 Random Strobe<br>204-239 Slow open slow close<br>168-203 Slow close fast open<br>132-167 Slow open fast close<br>16-131<br>8-15 Open<br>0-7 Off | 255 100%<br><br>0 0% | 255 100%<br><br>0 0% |

### 7.5 Lighting Library Download

The whole series of Xperior fixtures' personalities have been built into the most widely used consoles from Avolites, Compulite, Daslight, MA Lighting, Wholehog and Zero 88. Please visit their websites or ours: <http://www.acme-lighting.com/> to download the latest Fixture Personality Library.

To apply Xperior lighting libraries into the above mentioned consoles, please refer to the following example:

#### **Pearl 2008/2010 & Tiger**

You will need a USB memory stick.

1. Download the installer from <http://avolitesdownload.com/PersonalityLibrary/>
2. Run it to extract the complete library of Pearl 2008/2010 and Pearl Tiger fixture personalities.
3. Choose your memory stick as the install folder from the pull down list.
4. With the memory stick now plugged into the Pearl, choose the Sync Fixture option. This option can be found on soft key E of the System->USB Stick Options menu.
5. Select the manufacturer and fixture to starting controlling.

### 8. Update Software

Download update file from our web site, follow the user manual of IU-01 to update the fixture via IU-01(not included).

### 9. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

#### **A. The unit does not work, no light and the fan does not work**

1. Check the connect power and mains fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED to see if it can be light up or not

#### **B. Not responding to DMX controller**

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.

- 2.If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- 3.If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
- 4.Try to use another DMX controller.
- 5.Check to see if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

### **C. One of the channels is not working well**

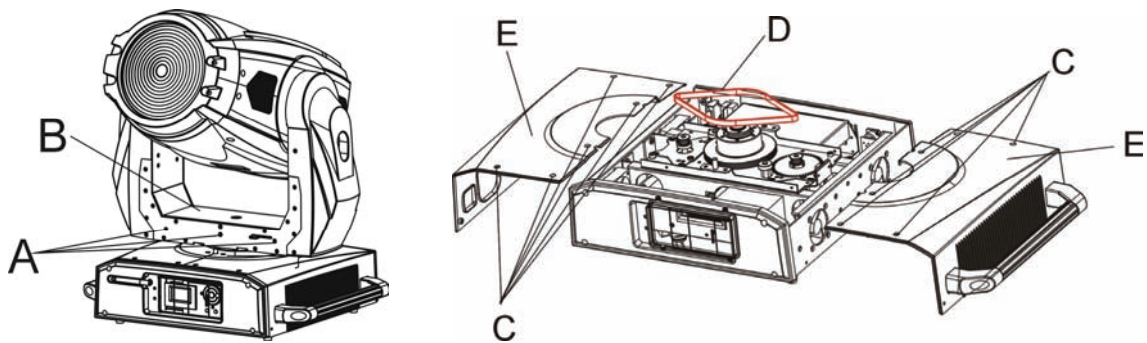
- 1.The stepper motor might be damaged or the cable connected to the PCB is broken.
- 2.The motor's drive IC on the PCB might be out of condition.

### **D. The lamp is cutting out intermittently**

1. The lamp is not working well. Check the mains voltage either too high or too low.
2. Internal temperature may be too high. Check if replacement of fan is needed on the head.

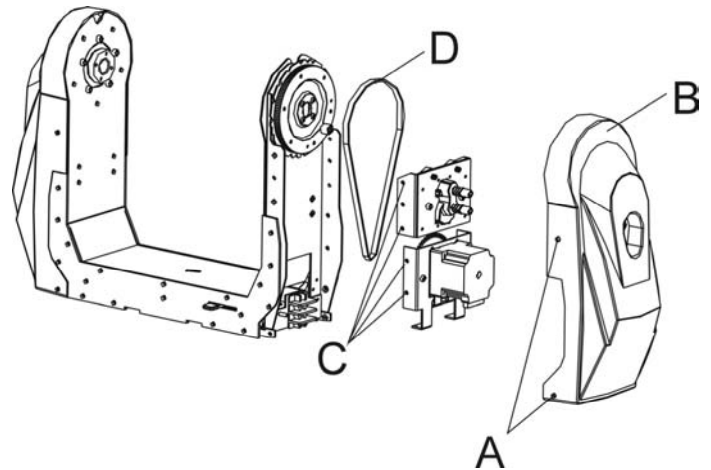
### **E. If The pan belt is broken**

1. Turn off the mains power.
2. Loosen the screws (A) open the cover (B).
3. Loosen the screws (C) open the base-housing cover (E).
4. Unplug all the connect wires over the belt.
5. Change a new belt (D), put the belt around the axis gear and motor gear.
6. Plug all the connect wires back that upon the belt.
7. Tighten all the screws.

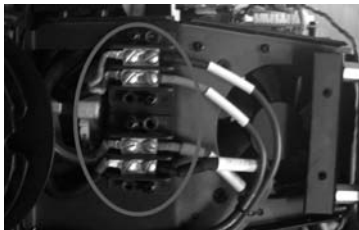


**F. If The tilt belt is broken**

1. Turn off the mains power.
2. Loosen all the screws (A) and open the right arm cover (B).
3. Loosen the screws (C) that fix the bridge.
4. Loosen the screws (D).
5. Change a new belt (E).
6. Reverse the procedures from step 3 to 2.



## 10. Maintenance and Cleaning

**Maintenance:****Ignitor****Ballast****Filter**

- A. As the pictures shown above, please replace the cable or cable joints immediately once they've turned yellow.
- B. Do maintain the fixtures every two months and make sure that all the screws and terminals have been locked firmly to make sure the normal performance of the fixtures. Negligence of maintenance would cause malfunction of the fixture.

**Cleaning:**

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth and use normal glass to clean fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.



### **EC Declaration of Conformity**

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 2004/108/EC.

EN55103-1:1996; EN55103-2:1996;

EN61000-3-2:2006

EN61000-3-3:2008

&

Harmonized Standard

EN 60598-2-17: 1989 +A2: 1991

EN60598-1:2008+A11:2009

Part 1:General requirements and test

Following the provisions of the low voltage directive 2006/95/EC

**Innovation, Quality, Performance**